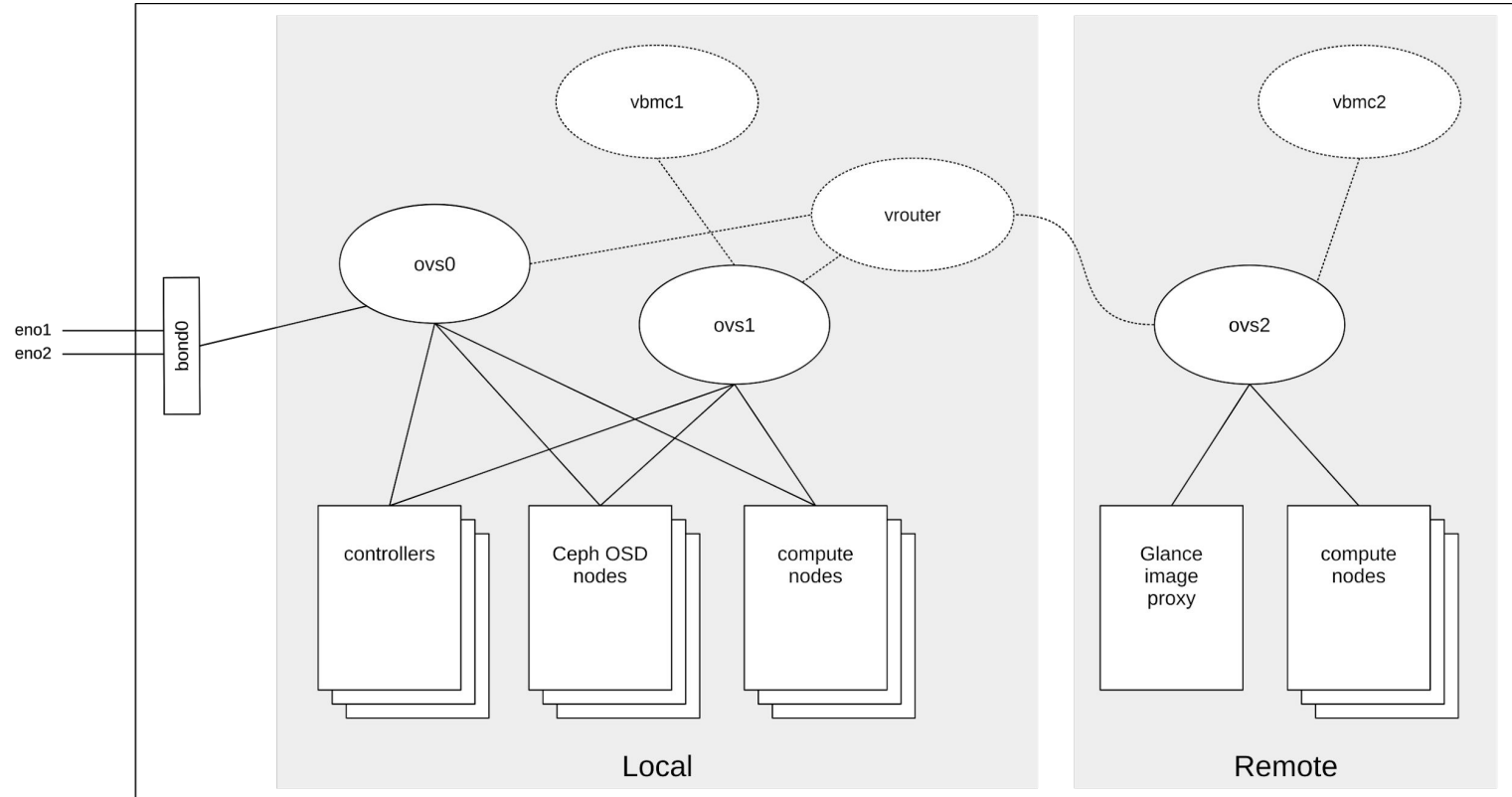# Distributed Compute Nodes

Not (Just) for NFV

Test Environment - Overview

Test Environment - Details

- Hypervisor
  - Supermicro 5028D-TN4T
    - 128GB RAM
    - 8-core (+HT) Xeon D-1541
      - 45W TDP!
    - 1TB SSD
  - CentOS 7
  - RDO Queens

- Persistent OVS bridges & ports

Network configuration is specific to my home environment.

- systemd-networkd
  - bond0
  - veth pairs
  - IP addresses
  - MTUs

- systemd service units
  - Create network namespaces
  - Move interfaces into namespaces
  - Network setup inside namespaces
  - Add latency via tc
  - Run vbmc & dhcrelay inside namespaces

Test Environment - systemd service units

- netns@.service - creates named systemd-managed network namespace
  - Other units require and/or "JoinsNamespaceOf" this unit
- vbmc-interfaces.service - initial network setup for vbmc1 & vbmc2 network namespaces
  - Runs in **default** network namespace
- vrouter-interfaces.service - initial network setup for vrouter network namespace
  - Runs in **default** network namespace
- vbmc1-network.service - network setup **inside** vbmc1 network namespace
- vbmc2-network.service - network setup **inside** vbmc2 network namespace
- vrouter.service - sets up network & runs DHCP relay **inside** vrouter network namespace
- vbmc1@.service - runs a vBMC **inside** vbmc1 network namespace
- vbmc2@.service - runs a vBMC **inside** vbmc2 network namespace

- Files at https://github.com/ipilcher/dcn